

## Contents of Volume 35 (1993)

### Number 1, February 1993

Computer-assisted improvement of mean squared error in statistical estimation, <i>J.E. Angus (United States)</i>	1
The continuization of a discrete process and applications in interpolation and multi-rate control, <i>E.I. Verriest (France)</i>	15
Parallel simulation of real-time systems via the Standard Clock approach, <i>Y.-C. Ho, C.G. Cassandras and M. Makhoul (United States)</i>	33
A generalized Lagrangian method for solving the steady shallow water equations, <i>J.-Y. Yang, C.A. Hsu and W.H. Hui (Taiwan, ROC / Canada)</i>	43
An adaptive approach to stepsize control in ODE solvers, <i>L.G. Birta, M. Yang and O. Abou-Rabia (Canada)</i>	63
A numerical algorithm for flame advection and propagation, <i>M. Calzada and Y. Song (United States)</i>	79
News of IMACS	93

### Number 2, April 1993

A survey of simulation programs for the analysis of mechanical systems, <i>M.J. Richard and C.M. Gosselin (Canada)</i>	103
Guaranteed nonlinear parameter estimation from bounded-error data via interval analysis, <i>L. Jaulin and E. Walter (France)</i>	123
Symmetric capillary surfaces in a cube, <i>H.D. Mittelman (United States)</i>	139
A predictor-corrector phase-fitted method for $y'' = f(x, y)$ , <i>T.E. Simos (Greece)</i>	153
An algorithm of obstacle avoidance for an autonomous mobile robot, <i>H. Miyata and M. Ohkita (Japan)</i>	161
Support-operators method for PDE discretization: symbolic algorithms and realization, <i>R. Liska, M.Yu. Shashkov and A.V. Solovjov (Czech Republic / Russia)</i>	173
Book Reviews, <i>W.F. Ames and C. Brezinski (United States / France)</i>	185
News of IMACS	193

### Number 3, September 1993

Computer simulation of an urban heat island using finite elements, <i>K.J. Mann (Australia)</i>	203
Iterative methods for nonsymmetric systems in DAEs and stiff ODEs codes, <i>A.T. Chronopoulos and C.T. Pedro (United States)</i>	211
A stochastic arithmetic for reliable scientific computation, <i>J. Vignes (France)</i>	233
Further comments on "cloud-averaged" concentration statistics, <i>P.J. Sullivan and H. Ye (Canada)</i>	263

Energy-based smoothing of data, <i>K.-F. Loe (Singapore)</i>	271
News of IMACS	279

#### *Number 4, October 1993*

Application of a collocation method for simulation of distributed parameter bioreactors, <i>N. Tali-Maamar, T. Damak, J.-P. Babary and M.T. Nihtilä (France / Finland)</i>	303
Stability of multiobjective nonlinear programming problems with fuzzy parameters, <i>M.S. Osman and A.-Z.H. El-Banna (Egypt)</i>	321
Babbage and cryptography. Or, the mystery of Admiral Beaufort's cipher, <i>O.I. Franksen (Denmark)</i>	327
News of IMACS	369

#### *Number 5, November 1993*

Embedded Runge-Kutta methods for periodic initial-value problems, <i>T.E. Simos (Greece)</i>	387
Deterministic scheduling in computing and manufacturing systems: a survey of models and algorithms, <i>S. Tzafestas and A. Triantafyllakis (Greece)</i>	397
Numerics with automatic result verification, <i>U. Kulisch and L.B. Rall (Germany / United States)</i>	435
Book Reviews, <i>W.F. Ames and C. Brezinski (United States / France)</i>	451
News of IMACS	461

#### *Number 6, December 1993*

Monte Carlo simulation for analysis of the optimum value distribution in stochastic mathematical programs, <i>H. Sarper (United States)</i>	469
PC environment for simulation and parameter estimation of distributed parameter systems, <i>N. Point, A. Vande Wouwer, M. Remy and M. Zeitz (Belgium / Germany)</i>	481
A linear symbolic-based approach to matrix inversion, <i>H. Arsham, D. Davani and J.B. Yu (United States)</i>	493
An adaptive incremental approach for the solution of convex programming models, <i>F.F. Mahmoud, A.K. Al-Saffar and K.A. Hassan (Kuwait)</i>	501
A differential-difference equation for a KdV-MKdV equation, <i>T.R. Taha (United States)</i>	509
On the equivalence between basis recombination and boundary bordering formulations for spectral collocation methods in rectangular domains, <i>A. Karageorghis (Cyprus)</i>	513
Book Reviews, <i>W.F. Ames and C. Brezinski (United States / France)</i>	525
News of IMACS	533
Author Index to Volume 35	541
Contents of Volume 35	545

